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High speed ink-jet printer - has large number of ink nozzles supplied in parallel and displaces head by step between nozzles, triggering ink jet in synchronism with position of head

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Patent Family:

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Priority Applications (No Type Date): FR 9513886 A 19951117

Patent Details:

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Abstract (Basic): FR 2741296 A

The high speed ink jet printer has a large number of ink jets in parallel and is displaced in small steps of an order of magnitude comparable to the steps separating the individual ink nozzles on the print head. The ink is supplied in parallel to all the nozzles. The control of the nozzles is multiplexed.

The print head is moved by a mechanical resonance system and the triggering of the individual jets is synchronised with the absolute position of the print head. The print head can be fabricated from individual modules or made as a single unit.

ADVANTAGE - Prints sixteen times faster than conventional ink jet printer.

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Title Terms: HIGH; SPEED; INK; JET; PRINT; NUMBER; INK; NOZZLE; SUPPLY; PARALLEL; DISPLACE; HEAD; STEP; NOZZLE; TRIGGER; INK; JET; SYNCHRONISATION; POSITION; HEAD

Derwent Class: P75; T04

International Patent Class (Main): B41J-002/155

File Segment: EPI; EngPI